AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

- 1. (Currently Amended) A diffractive optical element comprising:
 - a first diffractive element,
- a second diffractive element that is made of a material different from the first diffractive element and is cemented with the first diffractive element, and
- a diffraction grating formed on the <u>at</u> cemented surfaces of the first and second diffractive elements,

wherein a shade is formed on a wall surface in each groove of the diffraction grating.

- 2. (Currently Amended) The diffractive optical element according to claim 1, wherein the a material of one of these two the first diffractive elements element is a glass for glass molding, and that a material of the other second diffractive element is resin.
- 3. (Currently Amended) The diffractive optical element according to claim 2, wherein one of these two the first

diffractive <u>elements</u> element satisfies the following two conditional equations:

$$1.55 \le ndG \le 1.70$$

$$50 \le \nu dG \le 65$$

where ndG denotes <u>a</u> refractive index of one of these two the first diffractive elements element at d-line, and ν dG denotes <u>an</u> Abbe number of one of these two the first diffractive elements element at d-line; and

wherein the other of these two second diffractive elements element satisfies the following two conditional equations:

$$1.50 \le ndR \le 1.65$$

$$\nu dR \leq 45$$

where ndR denotes <u>a</u> refractive index of the other of these two second diffractive elements element at d-line, and ν dR denotes <u>an</u> Abbe number of the other of these two second diffractive elements element at d-line.

4. (Currently Amended) The diffractive optical element according to claim 3, wherein the minimum pitch of the diffraction grating grooves is 50 $\mu\,\mathrm{m}$ or more.

- 5. (Currently Amended) The diffractive optical element according to claim 4, wherein the—wall height of the diffraction grating grooves is 20 $\mu \rm m$ or less.
- 6. (Currently Amended) The diffractive optical element according to claim 3, wherein the wall height of the diffraction grating grooves is 20 $\mu \rm m$ or less.
- 7. (Currently Amended) The diffractive optical element according to claim 2, wherein the minimum pitch of the diffraction grating grooves is 50 $\mu \, \mathrm{m}$ or more.
- 8. (Currently Amended) The diffractive optical element according to claim 7, wherein the wall height of the diffraction grating grooves is 20 $\mu \rm m$ or less.
- 9. (Currently Amended) The diffractive optical element according to claim 2, wherein the wall height of the diffraction grating grooves is 20 $\mu \rm m$ or less.
- 10. (Currently Amended) The diffractive optical element according to claim 1, wherein one of these two the first diffractive elements element satisfies the following two conditional equations:

 $1.55 \leq \text{ndG} \leq 1.70$

 $50 \le \nu \, \mathrm{dG} \le 65$

where ndG denotes <u>a</u> refractive index of one of these two the first diffractive elements element at d-line, and ν dG denotes <u>an Abbe number of one of these two the first diffractive elements</u> element at d-line; and

wherein the other of these two second diffractive elements element satisfies the following two conditional equations:

 $1.50 \le ndR \le 1.65$

 $\nu dR \leq 45$

where ndR denotes a refractive index of the other of these two second diffractive elements element at d-line, and ν dR denotes an Abbe number of the other of these two second diffractive element at d-line.

- 11. (Currently Amended) The diffractive optical element according to claim 10, wherein the minimum pitch of the diffraction grating grooves is 50 μ m or more.
- 12. (Currently Amended) The diffractive optical element according to claim 11, wherein the wall height of the diffraction grating grooves is 20 μm or less.

- 13. (Currently Amended) The diffractive optical element according to claim 10, wherein the wall height of the diffraction grating grooves is 20 $\mu \rm m$ or less.
- 14. (Currently Amended) The diffractive optical element according to claim 1, wherein the minimum pitch of the diffraction grating grooves is 50 μm or more.
- 15. (Currently Amended) The diffractive optical element according to claim 14, wherein the wall height of the diffraction grating grooves is 20 $\mu \, \mathrm{m}$ or less.
- 16. (Currently Amended) The diffractive optical element according to claim 1, wherein the wall height of the diffraction grating grooves is 20 $\mu \rm m$ or less.

Claims 17-20 (Cancelled)